

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	
HARCHEKAR et al.	:	
	:	
Divisional of Application Serial No. 10/051,877	:	Group Art Unit: 1742
	:	
Filed: Herewith	:	Examiner: WYSZOMIERSKI, George
	:	
Title: Cu-Zn-Al(6%) SHAPE MEMORY	:	
ALLOY WITH LOW MARTENSITIC	:	
TEMPERATURE AND A PROCESS FOR ITS	:	
MANUFACTURE	:	
	:	
	:	x

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, Applicant hereby brings to the attention of the United States Patent and Trademark Office the following documents of which Applicant has been made aware.

It is respectfully requested that the references listed on the enclosed form PTO-1449 be made of record and considered with respect to the above-referenced U.S. patent application. A copy of each reference was of record in Application No. 10/051,877, the benefit of which is claimed under 37 C.F.R. § 120. Submission of the present Information Disclosure Statement should not be taken as an admission that the cited references are legally available prior art or that the same are pertinent or material.

In the event that any fee is due in connection with the present Information Disclosure Statement, the Commissioner is hereby authorized to charge the same to our Deposit Account No. 13-2165.

Respectfully submitted,

Dated: April 12, 2004



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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 4752-105.1 US		Application Number Herewith	
				Applicant(s) HARCHEKAR et al.			
				Filing Date Herewith		Group Art Unit 1742	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,036,669	07/19/1997	Brook et al.	148	11.5C	
		4,398,696	08/16/1983	Melton et al.	148	11.5C	
		4,472,213	09/18/1984	Tabei et al.	148	402	
		4,554,027	11/19/1985	Tautzenberger et al.	148	11.5R	
		4,750,953	06/14/1988	Tabei	148	402	

FOREIGN PATENT DOCUMENTS								
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation		
						YES	NO	

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
	C.M. Wayman, "Some Applications of Shape-Memory Alloys," J. Metals 32, pp. 129-37 (June 1980)
	A.D. Michael and W.B. Hart, "SME Brass - A New Engineering Material," Metall. Material. Tech., 12:434-440 (1980)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional)	Application Number
		Applicant(s)	
		Filing Date	Group Art Unit

*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	Ahmad A. Golestaneh, "Shape-Memory Phenomena," Physics Today, pp-62-70 (April 1984).
	White et al., "The Grain Size Dependence of the Loading and Reversion Behaviour of A Cu-Zn-Al Marmem Alloy Deformed Below Mt," J. De Physique, C4 (ICOMAT-82) pp. 779-783.
	Saburi et al., "The Shape Memory Mechanism in 18R Martensitic Alloys," Acta Metallurgica pp. 15-32 (Jan. 1980).
	L. McDonald Schetky, "Shape-Memory Alloys," Sci. Am. 241, pp. 68-76 (Nov. 1979).
	Dewa N. Adnyana, "A Copper-Based Alloy for Shape Memory Wires and Springs," Wire J. Int'l., pp. 52-61 (1984).
	Ikai et al., "Stability of the Shape Memory Effect - Effect fo Grain Size Refinement," J. D. Physique, Cr. (ICOMAT-82) pp. 785-789.
	Enami et al., "Effect of the Vanadium Addition on the Grain Size and Mechanical Properties of the Copper-Aluminium -Zinc Shape Memory Alloys," J. De. Physique, C4 (ICOMAT-82) pp. 773-778.
	Raymond A. Higgins, "Copper and the Copper-Base Alloys," Engineering Mettallurgy, Vol. 1, pp. 312-323 (1971)
	E.G. West, "Cooper and its Alloys," Ellis Horwood Ltd., Series in Industrial Metals, pp. 98-105 (1982).
	R.H. Greaves and H. Wrighton, "Practical Microscopical Metallography," Chapman & Hall Ltd., pp. 164-167 (1971)

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